This is not an official degree audit and it is subject to change. This chart is intended to be used by students who start out at Texas State. Please contact the College of Science and Engineering Undergraduate Advising Center for advising.

**Note:** In addition to major courses, students must also complete all core and minor requirements (if applicable) and any other requirements for graduation.

<table>
<thead>
<tr>
<th>Freshman Fall semester</th>
<th>Freshman Spring semester</th>
<th>Sophomore Fall semester</th>
<th>Sophomore Spring semester</th>
<th>Junior Fall semester</th>
<th>Junior Spring semester</th>
<th>Senior Fall semester</th>
<th>Senior Spring semester</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MATH 2471 (F,S,Su)</strong></td>
<td><strong>MATH 2472 (F,S,Su)</strong></td>
<td><strong>MATH 2393 (F,S,Su)</strong></td>
<td><strong>MATH 2337 (F,S,Su)</strong></td>
<td><strong>MATH 3330 (F,S,Su)</strong></td>
<td><strong>MATH 3380 (F,S)</strong></td>
<td><strong>MATH 4330 (F)</strong></td>
<td><strong>MATH 4307 (F)</strong></td>
</tr>
<tr>
<td>Calculus I</td>
<td>Calculus II</td>
<td>Calculus III (replaced MATH 3373)</td>
<td>Linear Algebra</td>
<td>Int to Advanced Math</td>
<td>Analysis I</td>
<td>Topology</td>
<td>Modern Algebra</td>
</tr>
<tr>
<td>TCCNS: MATH 2413</td>
<td>TCCNS: MATH 2414</td>
<td>TCCNS: MATH 2415</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>3 hours of natural science (see advisor for options)</strong></th>
<th><strong>3 hours of natural science (see advisor for options)</strong></th>
<th><strong>CS 1428 (F,S,Su)</strong></th>
<th><strong>Modern language 1420</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Foundations of Computer Science I</td>
<td>TCCNS: COSC 1437/1337</td>
</tr>
</tbody>
</table>

**9 hours MATH advanced electives:**
- MATH 3305 – Intro to Prob & Stats (F,S,Su)
- MATH 3323 – Differential Equations (F,S,Su)
- MATH 3325 – Number Systems (S)
- MATH 3348 – Det. Operations Research (F)
- MATH 3383 – Numerical Analysis I (F)
- MATH 3398 – Discrete Math II (F,S,Su)
- MATH 4305 – Prob & Stats (S)
- MATH 4306 – Fourier Series (S)
- MATH 4327 – Introduction to Complex Analysis & App
- MATH 4336 – Studies in Applied Math
- MATH 4373A – Topological Data Analysis
- MATH 4373B – Research in Discrete Mathematics
- MATH 4373C – Numerical Methods for Ordinary Diff Equ
- MATH 4373D – Topics in Topology and Algebra
- MATH 4350 – Combinatorics (S)
- MATH 4383 – Numerical Analysis II
- MATH 4393 – Introduction to Finite Element Methods

**Core courses must be completed:**
- 6 credits Core 010
- 3 credits Core 020
- 6 credits Core 030
- 3 credits Core 040
- 3 credits Core 050
- 6 credits Core 060
- 6 credits Core 070
- 3 credits Core 080
- 6 credits Core 090,
  - 091, 092, 093, and 094
- TXST options: ENG 1310, ENG 1320, ENG 1321, COMM 1310
- TXST options: MATH 2471
- TXST options: See catalog for options
- TXST options: ENG 2310, 2320, 2330, 2340, 2360, 2371, PHIL 1305, 1320
- TXST options: ART 2313, DAN 2313, MU 2313, TH 2313
- TXST options: ENG 3303, MATH 3330, MATH 3381, and MATH 3384
- TXST options: POSI 2310 & 2320
- TXST options: POSI 2310 & POSI 2320
- TXST options: ANTH 1312/ECO 2301/ECO 2314/GEOL 1310/PSY 1300/SOCI 1310

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